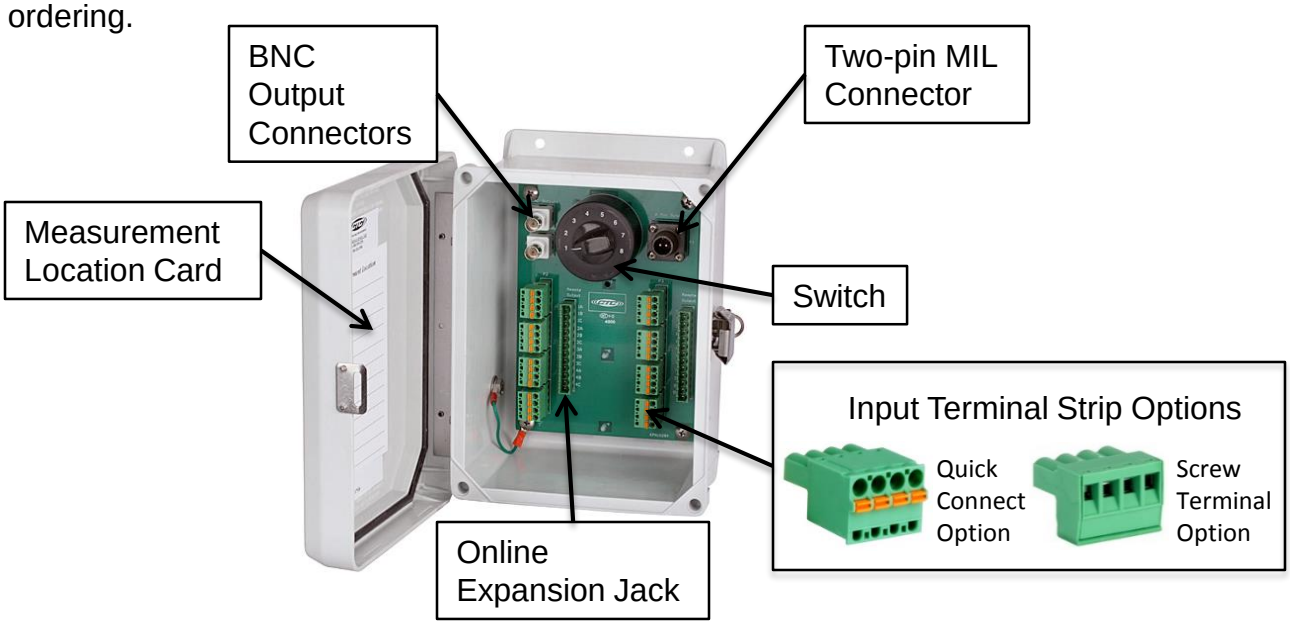
VIBRATION ANALYSIS HARDWARE

SB142 Series Switch Boxes

The SB142 fiberglass switch box is used to convert the three-conductor wiring of up to 8 remotely installed dual output sensors to two switched BNC connectors and one switched two-pin MIL spec connector for portable data collection. BNC labeled “J1” and the two-pin MIL provide output for vibration and the BNC labeled “J2” provides output for temperature measurements. Input wiring from each sensor is connected via quick-connect or screw terminal blocks. Each terminal block includes input for signal, temperature, negative and shield. The shield drain wire is earth-grounded via a ground stud that is mounted to the side of the fiberglass enclosure. Optionally, the SB142 can be equipped with a multi-pin connector for interface with online systems for continuous live readings. This connection requires a JB905-1A/2A plug. Also, the two-pin MIL connector can be replaced with a three-pin MIL as an option upon ordering.



A centrally located switch on the enclosure’s panel board determines which sensor provides output to each BNC and the two-pin MIL connector. A measurement location card is located on the inside of the enclosure door to identify each channel.

Rated for NEMA 4X (IP66), the SB142 can withstand harsh environments including temperatures ranging from -58° to 180°F (-50° to 82°C). The box is also resistant to hose directed fluid and corrosion. A snap latch is installed on the door allowing the box to be sealed from the elements when not in use.

VIBRATION ANALYSIS HARDWARE

SB142 Series Switch Boxes, cont.

Cable input options for the SB142 include:

A. User Defined Cable Entry with
Quick Connect Input Terminal Blocks
G. User Defined Cable Entry with
Screw Input Terminal Blocks

B. Conduit Fitting Cable Entry with
Quick Connect Input Terminal Blocks
H. Conduit Fitting Cable Entry with
Screw Input Terminal Blocks

C. Nylon Cord Grip Cable Entry with
Quick Connect Input Terminal Blocks
I. Nylon Cord Grip Cable Entry with
Screw Input Terminal Blocks

E. BNC Inputs Prewired to
Quick Connect Input Terminal Blocks
J. BNC Inputs Prewired to
Screw Input Terminal Blocks